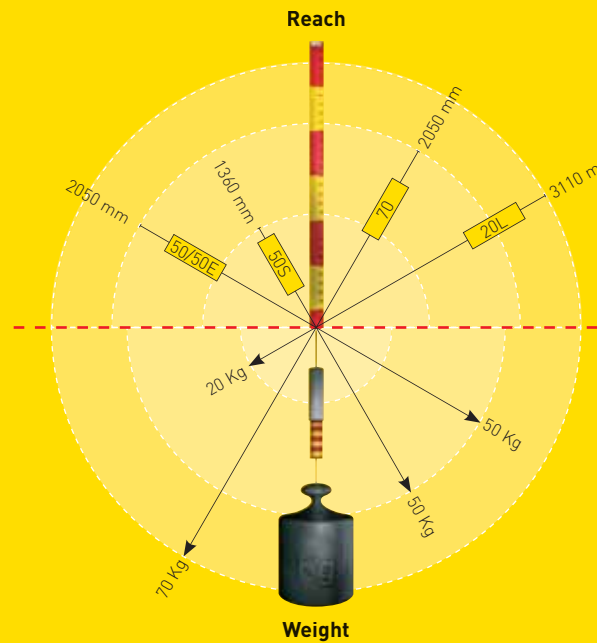


M-710iC SERIES

20

	Robot model	Controller	Controlled axes	Max. load capacity at wrist [kg]	Repeatability [mm]	Mechanical weight [kg]	Reach [mm]	Motion range [°]						Maximum speed [°/s]						J4 Moment [Nm]/ Inertia [kgm ²]	J5 Moment [Nm]/ Inertia [kgm ²]	J6 Moment [Nm]/ Inertia [kgm ²]	IP Rating
								J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6				
M-710iC	50	R-30iA	6	50	± 0.07	560	2050	360	225	440	720	250	720	175	175	175	250	250	355	206/28	206/28	127/11	Wrist & J3 arm IP67, body IP54, (Option: full body IP67)
	50E		6	50	± 0.07	560	2050	360	225	440	720	380	720	175	175	175	250	240	355	206/28	176/10.8	98/3.3	
	50S		6	50	± 0.07	545	1360	360	169	376	720	250	720	175	175	175	250	250	355	206/28	206/28	127/11	
	70		6	70	± 0.07	560	2050	360	225	440	720	250	720	160	120	120	225	225	225	294/28	294/28	147/11	
	20L		6	20	± 0.15	540	3110	360	225	432	400	280	900	175	175	180	350	360	600	39.2/0.88	39.2/0.88	19.6/0.25	



The M-710iC is available in 5 different models:

- M-710iC/50: 50kg payload, Standard model (2nd food option available)
- M-710iC/50S: 50kg payload, Short arm
- M-710iC/50E: 50kg payload, Offset wrist
- M-710iC/20L: 20kg, Long arm (3110mm)
- M-710iC/70: 70kg payload, Standard model (2nd food option available)

THE INNOVATIVE M-710iC SERIES OF ROBOTS IS DESIGNED TO HANDLE MEDIUM PAYLOADS (20 TO 70 KG) WITH A SLIM WRIST, RIGID ARM AND SMALL FOOTPRINT, SUITABLE FOR A WIDE RANGE OF APPLICATIONS.

» FEATURES AND BENEFITS

M-710iC Series, the intelligent and most productive solution for:

- Material handling
- Machine loading / unloading
- Machine tending
- Parts transfer
- Assembly
- Cutting, grinding, deburring, polishing
- Die casting with the IP67 option
- Arc welding of heavy and long parts
- Food packaging (2nd food option with food grade grease in the wrist & epoxy paint body available)

BEST PAYLOAD AND INERTIA IN ITS CLASS

20kg, 50kg or 70 kg payload and large allowable axes inertias are ideal for handling large work pieces such as glass panes and steel panels.

HIGHEST AXES SPEED

- Makes it the fastest robot in its class
- Allows handling larger or heavier work pieces
- Allows servicing larger and higher pallets

HIGH MECHANICAL RIGIDITY

Suitable for constant force applications (such as polishing, deburring...) and for process applications (arc welding, spot welding, laser welding, other welding, glueing, parts handling, deflashing...)

STANDARD AIR AND ELECTRICAL CONNECTIONS PROVIDED TO AXIS J3

Integrated air and electrical services from J1 to J3

- Short connections to tool
- Increased wiring reliability
- Proven reliability (factory built)

HOLLOW JOINT CONSTRUCTION

Reduced wear of cable routing as most reducers have hollow construction

COMPACT WRIST: NO MOTORS AND IP67

- No electrical elements at wrist: all motors for wrist motion are mounted on the robot's shoulder, J3.
- Reduced risk of damaging the wrist motors because of high heat or harsh environment
- Compact design to access narrow spaces
- High loads and high duty cycles possible thanks to good air cooling of the wrist motors
- Wrist unit sealed against dust and water according to IP67

FLIP OVER CAPABILITY

- Reduces cycle time
- Allows more flexible cell designs
- Allows several robots to work together in close proximity
- Full working envelope when robot mounted upside down

MOTORS DIRECTLY COUPLED TO THE REDUCER

- Simplified mechanical unit
- Reduced breakdown risk
- Compact and reliable solution
- High accuracy and minimum backlash

M-710iC/20L: VERY LONG J3 ARM

- Extended reach of 3110 mm to work inside the car body (sealing applications)
- Compact and slim wrist that can easily enter narrow spaces
- Ideal solution for arc welding of large work pieces

M-710iC/50S: ULTRA COMPACT MECHANICAL UNIT WITH HIGH PAYLOAD

- The M-710iC/50S has been designed to access narrow machines and workspaces.
- The J3 arm is able to avoid interference with low ceilings and openings while loading up to 50kg.

FULL IP67 OPTION FOR ALL UNITS

FOOD GRADE GREASE

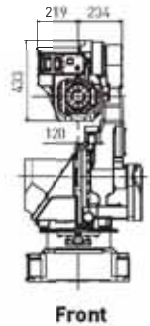
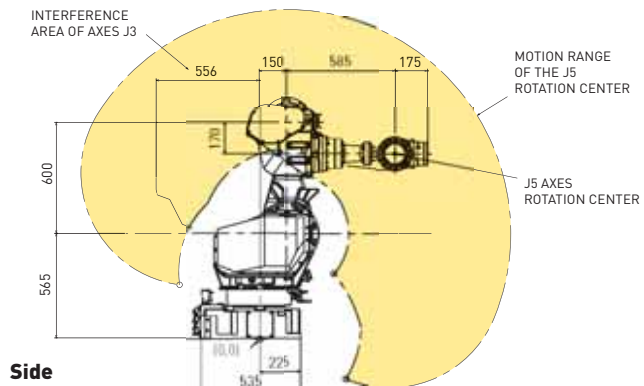
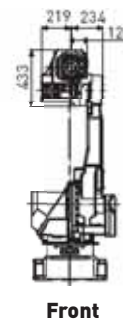
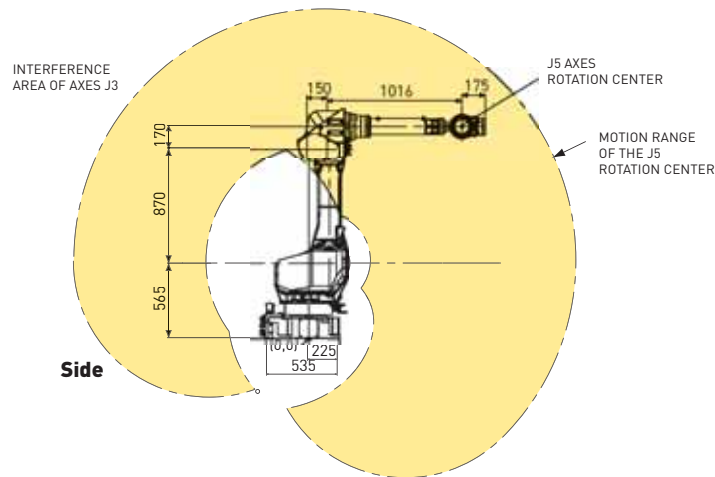
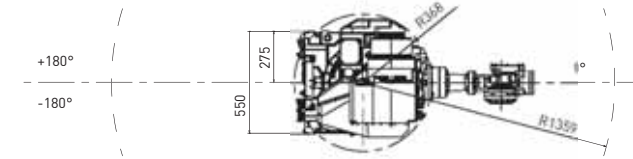
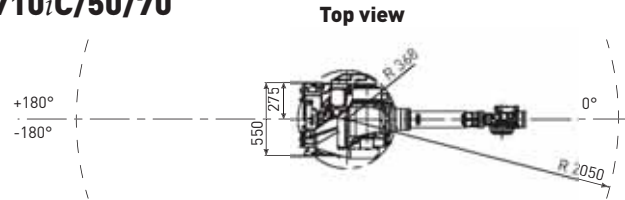
- Special food grease to avoid any risk of contaminating food with grease or oil

ROBOT ARM DESIGNED FOR FOOD INDUSTRY CLEANING REQUIREMENTS

- Special coating and sealing which protect against hot water, acid and alkaline cleaners
- Perfectly smooth surface of the whole unit for easy cleaning, thus avoiding the contamination by germs



Top view



Flange Wrist M-710iC/50, M-710iC/50S, M-710iC/70

